

## IN THE CLAIMS

1. (currently amended) A non-heat treated seamless steel tube having a composition consisting of, by weight,

C : 0.10 to ~~[[0.20%]]~~ 0.17%,

Si : 0.05 to 1.0%,

Mn : 0.5 to 2.5%,

P : not more than 0.03%,

S : not more than 0.05%,

Cr : 0.5 to 2.0%,

V : 0.03 to 0.3%,

Al : 0.003 to 0.10%,

N : 0.001 to 0.02%, and

O : not more than 0.003%,

wherein the balance comprises Fe and impurities, and

the carbon equivalent Ceq. (%) defined by the following equation is 0.60 to 0.85.

Ceq. =  $C + Mn / 6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$ , the non-heat treated seamless steel tube having a bainite-based structure.

2. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with at least one kind selected from,

Ni : 0.05 to 1.5%,

Mo : 0.05 to 1.5%,

Cu : 0.05 to 1.5%, and

B : 0.0003 to 0.01%.

3. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with one or 2 kinds selected from,

Ti : 0.005 to 0.2%, and

Nb : 0.005 to 0.2%.

4. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with at least one kind selected from,

Ni : 0.05 to 1.5%,  
Mo : 0.05 to 1.5%,  
Cu : 0.05 to 1.5%, and  
B : 0.0003 to 0.01%, and  
replaced with one or 2 kinds selected from,  
Ti : 0.005 to 0.2%, and  
Nb : 0.005 to 0.2%.